

<110> Rosen et al.

<120> 28 Human Secreted Proteins

<130> PZ003P2

<140> Unassigned

<141> 2001-05-11

<150> 60/265,583

<151> 2001-02-02

<150> 09/152,060

<151> 1998-09-11

<150> PCT/US98/04858

<151> 1998-03-12

<150> 60/040,762

<151> 1997-03-14

<150> 60/040,710

<151> 1997-03-14

<150> 60/050,934

<151> 1997-05-30

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<151> 1997-09-05

<150> 60/048,970

<151> 1997-06-06

<150> 60/068,368

<151> 1997-12-19

<160> 118

<170> PatentIn Ver. 2.0

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<211> 733

<212> DNA

<213> Homo sapiens

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 <223> Xaa equals any of the twenty naturally occurring L-amino acids

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32

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31

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12

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73

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240

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 <223> n equals a,t,g, or c

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agggtacctt	cagtactttt	tgcaataaaa	gtatttctta	tccaaaaaaa	aaaaaaaaaa	2040
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 <212> DNA
 <213> Homo sapiens

<400> 12

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 <212> DNA
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<210> 17
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 <212> DNA
 <213> Homo sapiens

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<210> 19
 <211> 1699
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (871)
 <223> n equals a,t,g, or c

<400> 19						
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tgctctctgc	tgcttctcta	ctcgtgagga	aactgcgcgc	gctctgccac	ggctctgcca	180
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gcaacatttt	catgtttagt	aaagtggcca	acacaattct	tttcttccgc	ttggatatcc	360
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<210> 20
 <211> 736

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (701)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (728)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (733)
<223> n equals a,t,g, or c

<400> 20
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cccagctatt ccatctgtgg atgaaagtaa caatgttggc cacgtatatt ttacacctcg 660
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<210> 21
<211> 1688
<212> DNA
<213> Homo sapiens

<400> 21
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<210> 22
<211> 2045
<212> DNA
<213> Homo sapiens
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<220>
<221> SITE
<222> (2041)
<223> n equals a,t,g, or c
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<400> 22						
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<210> 23

<211> 1101

<212> DNA

<213> Homo sapiens

<400> 23

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<210> 24

<211> 1659

<212> DNA

<213> Homo sapiens

<400> 24

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<210> 25
<211> 1329
<212> DNA
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (1140)  
<223> n equals a,t,g, or c
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<210> 26
<211> 700
<212> DNA
<213> Homo sapiens
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<220>
 <221> SITE
 <222> (81)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (659)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (692)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (700)
 <223> n equals a,t,g, or c

<400> 26
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<210> 27
 <211> 832
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (821)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (825)
 <223> n equals a,t,g, or c

<400> 27
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<210> 28

<211> 2361

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (2361)

<223> n equals a,t,g, or c

<400> 28

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<210> 29

<211> 879

<212> DNA

<213> Homo sapiens

<400> 29

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<212> DNA

<213> Homo sapiens

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<210> 31

<211> 3259

<212> DNA

<213> Homo sapiens

<400> 31

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 <212> DNA
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 <222> (26)
 <223> n equals a,t,g, or c

<220>
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 <212> DNA
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<211> 1022

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<210> 37
<211> 541
<212> DNA
<213> Homo sapiens

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<220>
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<222> (420)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (486)

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<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (530)

<223> n equals a,t,g, or c

<400> 37

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cgggtaccca	attcgcccta	tagtgagtcg	tattacaatt	cactgggccc	tcgttttaca	480
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<210> 38

<211> 1752

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (356)

<223> n equals a,t,g, or c

<400> 38

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 aaaaaaagaa aa 1752

<210> 39
 <211> 1907
 <212> DNA
 <213> Homo sapiens

<400> 39
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 aaggaagtgg aaccagatgc agaagaggaa atgatggaag gacttatggg atcagatacc 1860
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<210> 40
 <211> 2350
 <212> DNA
 <213> Homo sapiens

<400> 40
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 atgtgtatcc gaaaagggaa gagaatggtt gcccgattc ttcccttccct ctccacagag 180
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 accagcactc tccaatcctc acctcactgc tgtgtctccag aacaagtttg gcctgtcact 420

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<210> 41

<211> 1114

<212> DNA

<213> Homo sapiens

<400> 41

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gctgcctgcg	gagtgcacag	ccggggctag	ggcgccctgga	gaataagata	ttttctgtta	300
ccaacaacac	agaatgtggg	aagttactgg	aggaaatcaa	atgtgcactt	tgctctccac	360
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gtttccttca	aacaactgcg	gatgagtttt	gcttttacta	tgcaagaaaa	gatgggtggg	540
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gggcaacata	agaacaata	attatggcac	ctgaattagg	acagtgcacat	taaakgttgg	1020

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ctktttawat ttttaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 1114

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<210> 42
<211> 1652
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (1640)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (1644)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (1648)
<223> n equals a,t,g, or c

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ccgctctgcc acggtctgcc caccacaacgc gaagacggta acccgtgtga ctttgactgg 180
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aaaaaggggg ccgctctagn ggtncangc tt 1652

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<210> 43
<211> 1473
<212> DNA

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<213> Homo sapiens

<400> 43

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<210> 44

<211> 772

<212> DNA

<213> Homo sapiens

<400> 44

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<210> 45

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<223> n equals a,t,g, or c

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tgatggtttg	ggtggttatg	gccgtggtgg	tggaggcagt	ggaggttact	atgggcaagg	180
cggcatgagt	ggaggtggat	ggcgtgggat	gtactgaaag	caaaaacacc	aacatacaag	240
tcttgacaac	agcatctggt	ctactagact	ttcttaacaga	tttaattttct	tttgtatttt	300
aagaacttta	taatgactga	aggaatgtgt	tttcaaaata	ttatttggtg	aagcaacaga	360
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<213> Homo sapiens

<223> n equals a,t,g, or c

<223> n equals a,t,g, or c

<223> n equals a,t,g, or c

<223> n equals a,t,g, or c

<223> n equals a,t,g, or c

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<210> 47
<211> 885
<212> DNA
<213> Homo sapiens

<400> 47
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gacagaccgc cacactcacc tgcaccggga acaacaacaa tgttggcgac caaggagcag 180
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<210> 48
<211> 2315
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2264)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2312)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2315)
<223> n equals a,t,g, or c

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aaggcttttg gatgaatcat ccagaaggag aaacacctct ttgccttagg atctagttac 540
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 <211> 3175
 <212> DNA
 <213> Homo sapiens

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<210> 50

<211> 783

<212> DNA

<213> Homo sapiens

<400> 50

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aat						783

<210> 51

<211> 3030

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2388)
<223> n equals a,t,g, or c

<400> 51

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gctggtcaag	cagggscatg	agcctccac	cttcattgga	tggttcttca	cttgggaccc	2460
ctacaagtgg	actagccacc	catcccacaa	ggaagtgggt	gatggcagcc	cggcagcagc	2520
atcaaccatc	tctgagataa	cagcagaagt	caacaacttc	cggctatcca	gatggccggg	2580
caatggcagg	gcaggtgccg	tggccctgca	ggccctcaag	ggctcccagg	acagctcaga	2640

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gaatgatytg gtgcgaagcc ccaagtcggc tggcagcaga accagcagct ccgtcagcag 2700
caccagcgcc acgatcaacg ggggcctgcg ccggaacaa ctgatgcacc aggctgttga 2760
ggacctgcca gagggcgtgg accctgcccg cagggagttc tatctctcag actctgactt 2820
ccaagatatac tttgggaaat ccaaggagga attctacagc atggccacgt ggaggcagcg 2880
gcaggagaaa aagcagctgg gcttcttctg aaccaagcc ctctcgactg cccctatccc 2940
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ttggtcattcc tctgcgtgtc agtaaaagca 3030

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<210> 52
 <211> 61
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 52
 Met Glu His Ala Ala Gly Leu Pro Val Thr Arg His Pro Leu Ala Leu
 1 5 10 15
 Leu Leu Ala Leu Cys Pro Gly Pro Phe Pro Ala Leu Leu Leu Pro Leu
 20 25 30
 Leu Pro Trp Gly Tyr Pro Leu Ala Pro Pro Gly Leu Cys Lys Leu Pro
 35 40 45
 Gln Gly Ala Pro Leu Pro Cys Ser Ser Xaa Leu Thr Ser
 50 55 60

<210> 53
 <211> 243
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (190)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 53
 Met Asp Gln Tyr Cys Ile Leu Gly Arg Ile Gly Glu Gly Ala Xaa Gly
 1 5 10 15
 Ile Val Phe Lys Ala Lys His Val Glu Thr Gly Glu Ile Val Ala Leu
 20 25 30
 Lys Lys Val Ala Leu Arg Arg Leu Glu Asp Gly Phe Pro Asn Gln Ala
 35 40 45

Leu Arg Glu Ile Lys Ala Leu Gln Glu Met Glu Asp Asn Gln Tyr Val
 50 55 60
 Val Gln Leu Lys Ala Val Phe Pro His Gly Gly Gly Phe Val Leu Ala
 65 70 75 80
 Phe Glu Phe Met Leu Ser Asp Leu Ala Glu Val Val Arg His Ala Gln
 85 90 95
 Arg Pro Leu Ala Gln Ala Gln Val Lys Ser Tyr Leu Gln Met Leu Leu
 100 105 110
 Lys Gly Val Ala Phe Cys His Ala Asn Asn Ile Val His Arg Asp Leu
 115 120 125
 Lys Pro Ala Asn Leu Leu Ile Ser Ala Ser Gly Gln Leu Lys Ile Ala
 130 135 140
 Asp Phe Gly Leu Ala Arg Val Phe Ser Pro Asp Gly Ser Arg Leu Tyr
 145 150 155 160
 Thr His Gln Val Ala Thr Arg Ser Ser Leu Ser Cys Arg Thr Thr Thr
 165 170 175
 Arg Ser Pro Leu Arg Ser Arg Cys Pro Cys Pro Trp Arg Xaa Cys Cys
 180 185 190
 Leu Thr Ser Leu Pro Arg His Trp Ile Cys Trp Val Asn Ser Phe Ser
 195 200 205
 Thr Leu Leu Thr Ser Ala Ser Gln Leu Pro Arg Leu Ser Ser Ile Ser
 210 215 220
 Thr Ser Ser Gln Leu Pro Cys Leu Pro Ile His Leu Ser Cys Arg Phe
 225 230 235 240
 Leu Ser Val

<210> 54

<211> 65

<212> PRT

<213> Homo sapiens

<400> 54

Met Glu Ala Lys Phe Gly Leu Leu Cys Phe Leu Val Ser Thr Pro Trp
 1 5 10 15
 Ala Glu Leu Leu Ser Leu Leu Leu His Leu Thr Gln Val Pro Phe Pro
 20 25 30
 Gly Ser Gln Gly Leu Gly Leu Asn Asn Cys Arg Ala Ala Cys His Asp
 35 40 45
 Leu Ser His Leu Leu Leu Ser His Ser Ala Ile Asn Gln Thr Lys Glu
 50 55 60

Phe
65

<210> 55
<211> 37
<212> PRT
<213> Homo sapiens

<400> 55
Met Leu Ala Arg Lys Ala Glu Arg Gly Ser Met Gly Thr Ala Arg Asp
1 5 10 15
Ser His Ile Leu Leu Val Cys Ser Val Val His Pro Ala Ser Ala Gln
20 25 30
Pro Val Tyr Thr Val
35

<210> 56
<211> 317
<212> PRT
<213> Homo sapiens

<400> 56
Met Leu Ser Phe Lys Leu Leu Leu Leu Ala Val Ala Leu Gly Phe Phe
1 5 10 15
Glu Gly Asp Ala Lys Phe Gly Glu Arg Asn Glu Gly Ser Gly Ala Arg
20 25 30
Arg Arg Arg Cys Leu Asn Gly Asn Pro Pro Lys Arg Leu Lys Arg Arg
35 40 45
Asp Arg Arg Met Met Ser Gln Leu Glu Leu Leu Ser Gly Gly Glu Met
50 55 60
Leu Cys Gly Gly Phe Tyr Pro Arg Leu Ser Cys Cys Leu Arg Ser Asp
65 70 75 80
Ser Pro Gly Leu Gly Arg Leu Glu Asn Lys Ile Phe Ser Val Thr Asn
85 90 95
Asn Thr Glu Cys Gly Lys Leu Leu Glu Glu Ile Lys Cys Ala Leu Cys
100 105 110
Ser Pro His Ser Gln Ser Leu Phe His Ser Pro Glu Arg Glu Val Leu
115 120 125
Glu Arg Asp Leu Val Leu Pro Leu Leu Cys Lys Asp Tyr Cys Lys Glu
130 135 140
Phe Phe Tyr Thr Cys Arg Gly His Ile Pro Gly Phe Leu Gln Thr Thr
145 150 155 160
Ala Asp Glu Phe Cys Phe Tyr Tyr Ala Arg Lys Asp Gly Gly Leu Cys
165 170 175

Phe Pro Asp Phe Pro Arg Lys Gln Val Arg Gly Pro Ala Ser Asn Tyr
180 185 190

Leu Asp Gln Met Glu Glu Tyr Asp Lys Val Glu Glu Ile Ser Arg Lys
195 200 205

His Lys His Asn Cys Phe Cys Ile Gln Glu Val Val Ser Gly Leu Arg
210 215 220

Gln Pro Val Gly Ala Leu His Ser Gly Asp Gly Ser Gln Arg Leu Phe
225 230 235 240

Ile Leu Glu Lys Glu Gly Tyr Val Lys Ile Leu Thr Pro Glu Gly Glu
245 250 255

Ile Phe Lys Glu Pro Tyr Leu Asp Ile His Lys Leu Val Gln Ser Gly
260 265 270

Ile Lys Val Gly Phe Leu Asn Phe Ile Tyr Phe Cys Ala Gly Tyr Val
275 280 285

Asn Phe Ile Leu Val Leu Pro Ser Ser Leu Lys Val Phe Leu Cys Asn
290 295 300

Lys Arg Lys Asn Leu Ala Gly Glu Asn Lys Gly Ala Thr
305 310 315

<210> 57

<211> 41

<212> PRT

<213> Homo sapiens

<400> 57

Met Ser Trp Gly Ile Trp Lys Gly Leu Asp Leu Phe Pro Leu Ile Lys
1 5 10 15

Gly Asn Ser Ser Leu Cys Leu Phe Leu Leu Val Val Pro Lys Gly Tyr
20 25 30

Ser Ser Ser Glu Ile Thr Arg Ala Leu
35 40

<210> 58

<211> 57

<212> PRT

<213> Homo sapiens

<400> 58

Met Ser Leu Pro Cys His Leu Leu Pro Gly Leu Leu Gln Gln Leu Leu
1 5 10 15

Thr Ser Leu Pro Ala Phe Gln Phe Ser Ala Pro Leu Gln Val Phe Ser
20 25 30

Leu Asp Gly Leu Ser Leu Pro Ala Pro Lys Leu Leu Thr Ala Ser Leu

45

Gly Leu Leu Tyr Ile Thr Leu Cys Ile Val Phe Leu Met Thr Cys Lys

115					120					125					
Pro	Pro	Leu	Tyr	Met	Gly	Pro	Glu	Tyr	Ile	Lys	Tyr	Phe	Asn	Asp	Lys
130						135					140				
Thr	Ile	Asp	Glu	Glu	Leu	Glu	Arg	Asp	Lys	Arg	Val	Thr	Trp	Ile	Val
145					150					155					160
Glu	Phe	Phe	Ala	Asn	Trp	Ser	Asn	Asp	Cys	Gln	Ser	Phe	Ala	Pro	Ile
				165					170					175	
Tyr	Ala	Asp	Leu	Ser	Leu	Lys	Tyr	Asn	Cys	Thr	Gly	Leu	Asn	Phe	Gly
			180					185					190		
Lys	Val	Asp	Val	Gly	Arg	Tyr	Thr	Asp	Val	Ser	Thr	Arg	Tyr	Lys	Val
		195					200					205			
Ser	Thr	Ser	Pro	Leu	Thr	Lys	Gln	Leu	Pro	Thr	Leu	Ile	Leu	Phe	Gln
	210					215					220				
Gly	Gly	Lys	Glu	Ala	Met	Arg	Arg	Pro	Gln	Ile	Asp	Lys	Lys	Gly	Arg
225					230					235					240
Ala	Val	Ser	Trp	Thr	Phe	Ser	Glu	Glu	Asn	Val	Ile	Arg	Glu	Phe	Asn
				245					250					255	
Leu	Asn	Glu	Leu	Tyr	Gln	Arg	Ala	Lys	Lys	Leu	Ser	Lys	Ala	Gly	Asp
			260					265					270		
Asn	Ile	Pro	Glu	Glu	Gln	Pro	Val	Xaa	Ser	Thr	Pro	Thr	Thr	Val	Ser
		275					280					285			
Asp	Gly	Glu	Asn	Lys	Lys	Asp	Lys								
	290					295									

<210> 61

<211> 100

<212> PRT

<213> Homo sapiens

<400> 61

Met	Arg	Ala	Phe	Arg	Lys	Asn	Lys	Thr	Leu	Gly	Tyr	Gly	Val	Pro	Met
1				5					10					15	

Leu	Leu	Leu	Ile	Val	Gly	Gly	Ser	Phe	Gly	Leu	Arg	Glu	Phe	Ser	Gln
			20					25					30		

Ile	Arg	Tyr	Asp	Ala	Val	Lys	Ser	Lys	Met	Asp	Pro	Glu	Leu	Glu	Lys
		35					40					45			

Lys	Leu	Lys	Glu	Asn	Lys	Ile	Ser	Leu	Glu	Ser	Glu	Tyr	Glu	Lys	Ile
	50					55					60				

Lys	Asp	Ser	Lys	Phe	Asp	Asp	Trp	Lys	Asn	Ile	Arg	Gly	Pro	Arg	Pro
	65				70					75				80	

Trp	Glu	Asp	Pro	Asp	Leu	Leu	Gln	Gly	Arg	Asn	Pro	Glu	Ser	Leu	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

95

Asp Val Met Cys Ser Glu Ser Tyr Leu Phe Gly Pro Tyr Tyr Ser Ser
145 150 155 160

Val Tyr

<210> 64

<211> 335

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (297)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 64

Met Arg Gly Leu Gly Leu Trp Leu Leu Gly Ala Met Met Leu Pro Ala
1 5 10 15

Ile Ala Pro Ser Arg Pro Trp Ala Leu Met Glu Gln Tyr Glu Val Val
20 25 30

Leu Pro Xaa Arg Leu Pro Gly Pro Arg Val Arg Arg Ala Leu Pro Ser
35 40 45

His Leu Gly Leu His Pro Glu Arg Val Ser Tyr Val Leu Gly Ala Thr
50 55 60

Gly His Asn Phe Thr Leu His Leu Arg Lys Asn Arg Asp Leu Leu Gly
65 70 75 80

Ser Gly Tyr Thr Glu Thr Tyr Thr Ala Ala Asn Gly Ser Glu Val Thr
85 90 95

Glu Gln Pro Arg Gly Gln Asp His Cys Phe Tyr Gln Gly His Val Glu
100 105 110

Gly Tyr Pro Asp Ser Ala Ala Ser Leu Ser Thr Cys Ala Gly Leu Arg
115 120 125

Gly Phe Phe Gln Val Gly Ser Asp Leu His Leu Ile Glu Pro Leu Asp
130 135 140

Glu Gly Gly Glu Gly Gly Arg His Ala Val Tyr Gln Ala Glu His Leu
145 150 155 160

Leu Gln Thr Ala Gly Thr Cys Gly Val Ser Asp Asp Ser Leu Gly Ser
165 170 175

Leu Leu Gly Pro Arg Thr Ala Ala Val Phe Arg Pro Arg Pro Gly Asp
180 185 190

Ser Leu Pro Ser Arg Glu Thr Arg Tyr Val Glu Leu Tyr Val Val Val
195 200 205

Asp Asn Ala Glu Phe Gln Met Leu Gly Ser Glu Ala Ala Val Arg His
210 215 220

Arg Val Leu Glu Val Val Asn His Val Asp Lys Leu Tyr Gln Lys Leu
225 230 235 240

Asn Phe Arg Val Val Leu Val Gly Leu Glu Ile Trp Asn Ser Gln Asp
245 250 255

Arg Phe His Val Ser Pro Asp Pro Ser Val Thr Leu Glu Asn Leu Leu
260 265 270

Thr Trp Gln Ala Arg Gln Arg Thr Arg Arg His Leu His Asp Asn Val
275 280 285

Gln Leu Ile Thr Gly Val Asp Phe Xaa Gly Thr Thr Val Gly Phe Ala
290 295 300

Arg Val Ser Thr Met Cys Ser His Ser Ser Gly Ala Val Asn Gln Asp
305 310 315 320

His Ser Lys Asn Pro Val Gly Val Ala Cys Thr Met Ala His Glu
325 330 335

<210> 65

<211> 356

<212> PRT

<213> Homo sapiens

<400> 65

Met Asp Tyr Arg Gly Gly Asp Gly Thr Ser Met Asp Tyr Arg Gly Arg
1 5 10 15

Glu Ala Pro His Met Asn Tyr Arg Asp Arg Asp Ala His Ala Val Asp
20 25 30

Phe Arg Gly Arg Asp Ala Pro Pro Ser Asp Phe Arg Gly Arg Gly Thr
35 40 45

Tyr Asp Leu Asp Phe Arg Gly Arg Asp Gly Ser His Ala Asp Phe Arg
50 55 60

Gly Arg Asp Leu Ser Asp Leu Asp Phe Arg Ala Arg Glu Gln Ser Arg
65 70 75 80

Ser Asp Phe Arg Asn Arg Asp Val Ser Asp Leu Asp Phe Arg Asp Lys
85 90 95

Asp Gly Thr Gln Val Asp Phe Arg Gly Arg Gly Ser Gly Thr Thr Asp
100 105 110

Leu Asp Phe Arg Asp Arg Asp Thr Pro His Ser Asp Phe Arg Gly Arg
115 120 125

His Arg Ser Arg Thr Asp Gln Asp Phe Arg Gly Arg Glu Met Gly Ser
130 135 140

0066270640

Cys Met Glu Phe Lys Asp Arg Glu Met Pro Pro Val Asp Pro Asn Ile
 145 150 155 160
 Leu Asp Tyr Ile Gln Pro Ser Thr Gln Asp Arg Glu His Ser Gly Met
 165 170 175
 Asn Val Asn Arg Arg Glu Glu Ser Thr His Asp His Thr Ile Glu Arg
 180 185 190
 Pro Ala Phe Gly Ile Gln Lys Gly Glu Phe Glu His Ser Glu Thr Arg
 195 200 205
 Glu Gly Glu Thr Gln Gly Val Ala Phe Glu His Glu Ser Pro Ala Asp
 210 215 220
 Phe Gln Asn Ser Gln Ser Pro Val Gln Asp Gln Asp Lys Ser Gln Leu
 225 230 235 240
 Ser Gly Arg Glu Glu Gln Ser Ser Asp Ala Gly Leu Phe Lys Glu Glu
 245 250 255
 Gly Gly Leu Asp Phe Leu Gly Arg Gln Asp Thr Asp Tyr Arg Ser Met
 260 265 270
 Glu Tyr Arg Asp Val Asp His Arg Leu Pro Gly Ser Gln Met Phe Gly
 275 280 285
 Tyr Gly Gln Ser Lys Ser Phe Pro Glu Gly Lys Thr Ala Arg Asp Ala
 290 295 300
 Gln Arg Asp Leu Gln Asp Gln Asp Tyr Arg Thr Gly Pro Ser Glu Glu
 305 310 315 320
 Lys Pro Ser Arg Leu Ile Arg Leu Ser Gly Val Pro Glu Asp Ala Thr
 325 330 335
 Lys Glu Glu Ile Leu Asn Ala Phe Arg Thr Pro Asp Gly Met Pro Val
 340 345 350
 Lys Asn Cys Ser
 355

<210> 66

<211> 125

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 66

Met Leu Ser Gln Pro Leu Val Gly Ala Gln Arg Arg Arg Arg Ala Val
 1 5 10 15

Gly Gly Gly Arg Ser Lys Arg Asp Pro Asp Leu Tyr Gln Leu Leu Gln
35 40 45

Arg Leu Phe Lys Ser His Ser Ser Leu Glu Gly Leu Leu Lys Ala Leu
50 55 60

Ser Gln Ala Ser Thr Asp Pro Lys Glu Ser Thr Ser Pro Glu Lys Arg
65 70 75 80

Asp Met His Asp Phe Phe Val Gly Leu Met Gly Lys Arg Ser Val Gln
85 90 95

Pro Asp Ser Pro Thr Asp Val Asn Gln Glu Asn Val Pro Ser Phe Gly
100 105 110

Ile Leu Lys Tyr Pro Pro Arg Ala Glu
115 120

<210> 69

<211> 26

<212> PRT

<213> Homo sapiens

<400> 69

Met Val Val Met Glu Val Leu Met Thr Met Val Ala Ile Ile Ile Thr
1 5 10 15

Ala Met Gly Met Met Ala Leu Met Thr Glu
20 25

<210> 70

<211> 235

<212> PRT

<213> Homo sapiens

<400> 70

Met Pro Trp Val Leu Leu Leu Leu Thr Leu Leu Thr His Ser Ala Val
1 5 10 15

Ser Val Val Gln Ala Gly Leu Thr Gln Pro Pro Ser Val Ser Lys Asp
20 25 30

Leu Arg Gln Thr Ala Thr Leu Thr Cys Thr Gly Asn Asn Asn Asn Val
35 40 45

Gly Asp Gln Gly Ala Ala Trp Leu Gln Gln His Gln Gly His Pro Pro
50 55 60

Lys Leu Leu Ser Tyr Arg Asn Asn Asn Arg Pro Ser Gly Ile Ser Glu
65 70 75 80

Arg Leu Ser Ala Ser Arg Ser Gly Ala Thr Ser Ser Leu Thr Ile Thr
85 90 95

Gly Leu Gln Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Tyr Asp
100 105 110

Ser Ser Leu Ala Val Trp Met Phe Gly Gly Gly Thr Lys Leu Thr Val

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<210> 71
<211> 217
<212> PRT
<213> Homo sapiens

<400> 71
Met Asp Ser Gln Gln Ala Ser Gly Thr Ile Val Gln Ile Val Ile Asn
  1              5              10              15
Asn Lys His Lys His Gly Gln Val Cys Val Ser Asn Gly Lys Thr Tyr
      20              25              30
Ser His Gly Glu Ser Trp His Pro Asn Leu Arg Ala Phe Gly Ile Val
      35              40              45
Glu Cys Val Leu Cys Thr Cys Asn Val Thr Lys Gln Glu Cys Lys Lys
      50              55              60
Ile His Cys Pro Asn Arg Tyr Pro Cys Lys Tyr Pro Gln Lys Ile Asp
      65              70              75              80
Gly Lys Cys Cys Lys Val Cys Pro Glu Glu Leu Pro Gly Gln Ser Phe
      85              90              95
Asp Asn Lys Gly Tyr Phe Cys Gly Glu Glu Thr Met Pro Val Tyr Glu
      100             105             110
Ser Val Phe Met Glu Asp Gly Glu Thr Thr Arg Lys Ile Ala Leu Glu
      115             120             125
Thr Glu Arg Pro Pro Gln Val Glu Val His Val Trp Thr Ile Arg Lys
      130             135             140
Gly Ile Leu Gln His Phe His Ile Glu Lys Ile Ser Lys Arg Met Phe

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145 150 155 160

Glu Glu Leu Pro His Phe Lys Leu Val Thr Arg Thr Thr Leu Ser Gln
 165 170 175

Trp Lys Ile Phe Thr Glu Gly Glu Ala Gln Ile Ser Gln Met Cys Ser
 180 185 190

Ser Arg Val Cys Arg Thr Glu Leu Glu Asp Leu Val Lys Val Leu Tyr
 195 200 205

Leu Glu Arg Ser Glu Lys Gly His Cys
 210 215

<210> 72
<211> 492
<212> PRT
<213> Homo sapiens

<400> 72

Met Lys Ala Phe His Thr Phe Cys Val Val Leu Leu Val Phe Gly Ser
1 5 10 15

Val Ser Glu Ala Lys Phe Asp Asp Phe Glu Asp Glu Glu Asp Ile Val
 20 25 30

Glu Tyr Asp Asp Asn Asp Phe Ala Glu Phe Glu Asp Val Met Glu Asp
 35 40 45

Ser Val Thr Glu Ser Pro Gln Arg Val Ile Ile Thr Glu Asp Asp Glu
50 55 60

Asp Glu Thr Thr Val Glu Leu Glu Gly Gln Asp Glu Asn Gln Glu Gly
65 70 75 80

Asp Phe Glu Asp Ala Asp Thr Gln Glu Gly Asp Thr Glu Ser Glu Pro
 85 90 95

Tyr Asp Asp Glu Glu Phe Glu Gly Tyr Glu Asp Lys Pro Asp Thr Ser
100 105 110

Ser Ser Lys Asn Lys Asp Pro Ile Thr Ile Val Asp Val Pro Ala His
115 120 125

Leu Gln Asn Ser Trp Glu Ser Tyr Tyr Leu Glu Ile Leu Met Val Thr
130 135 140

Gly Leu Leu Ala Tyr Ile Met Asn Tyr Ile Ile Gly Lys Asn Lys Asn
145 150 155 160

Ser Arg Leu Ala Gln Ala Trp Phe Asn Thr His Arg Glu Leu Leu Glu
165 170 175

Ser Asn Phe Thr Leu Val Gly Asp Asp Gly Thr Asn Lys Glu Ala Thr
180 185 190

Ser Thr Gly Lys Leu Asn Gln Glu Asn Glu His Ile Tyr Asn Leu Trp

195					200					205					
Cys	Ser	Gly	Arg	Val	Cys	Cys	Glu	Gly	Met	Leu	Ile	Gln	Leu	Arg	Phe
210					215					220					
Leu	Lys	Arg	Gln	Asp	Leu	Leu	Asn	Val	Leu	Ala	Arg	Met	Met	Arg	Pro
225					230					235					240
Val	Ser	Asp	Gln	Val	Gln	Ile	Lys	Val	Thr	Met	Asn	Asp	Glu	Asp	Met
				245					250					255	
Asp	Thr	Tyr	Val	Phe	Ala	Val	Gly	Thr	Arg	Lys	Ala	Leu	Val	Arg	Leu
			260					265						270	
Gln	Lys	Glu	Met	Gln	Asp	Leu	Ser	Glu	Phe	Cys	Ser	Asp	Lys	Pro	Lys
			275				280					285			
Ser	Gly	Ala	Lys	Tyr	Gly	Leu	Pro	Asp	Ser	Leu	Ala	Ile	Leu	Ser	Glu
			290			295					300				
Met	Gly	Glu	Val	Thr	Asp	Gly	Met	Met	Asp	Thr	Lys	Met	Val	His	Phe
305					310					315					320
Leu	Thr	His	Tyr	Ala	Asp	Lys	Ile	Glu	Ser	Val	His	Phe	Ser	Asp	Gln
				325					330					335	
Phe	Ser	Gly	Pro	Lys	Ile	Met	Gln	Glu	Glu	Gly	Gln	Pro	Leu	Lys	Leu
			340					345						350	
Pro	Asp	Thr	Lys	Arg	Thr	Leu	Leu	Phe	Thr	Phe	Asn	Val	Pro	Gly	Ser
			355				360						365		
Gly	Asn	Thr	Tyr	Pro	Lys	Asp	Met	Glu	Ala	Leu	Leu	Pro	Leu	Met	Asn
			370			375					380				
Met	Val	Ile	Tyr	Ser	Ile	Asp	Lys	Ala	Lys	Lys	Phe	Arg	Leu	Asn	Arg
385					390					395					400
Glu	Gly	Lys	Gln	Lys	Ala	Asp	Lys	Asn	Arg	Ala	Arg	Val	Glu	Glu	Asn
				405				410						415	
Phe	Leu	Lys	Leu	Thr	His	Val	Gln	Arg	Gln	Glu	Ala	Ala	Gln	Ser	Arg
			420					425					430		
Arg	Glu	Glu	Lys	Lys	Arg	Ala	Glu	Lys	Glu	Arg	Ile	Met	Asn	Glu	Glu
			435				440					445			
Asp	Pro	Glu	Lys	Gln	Arg	Arg	Leu	Glu	Glu	Ala	Ala	Leu	Arg	Arg	Glu
			450			455					460				
Gln	Lys	Lys	Leu	Glu	Lys	Lys	Gln	Met	Lys	Met	Lys	Gln	Ile	Lys	Val
465					470					475					480
Lys	Ala	His	Val	Lys	Pro	Ser	Gln	Arg	Phe	Glu	Phe				
				485						490					

<400> 73

Cys Ala Arg Ala
35

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

 $\langle 222 \rangle$ (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 74

Arg Gly Trp Asn Arg Arg Ala Ala Glu Val Arg Lys Ala Arg Leu Pro
35 40 45

Leu Gly Val Thr Val Gly Pro Arg Cys Arg His Ala Val His Pro Ser
50 55 60

Lys Gly Gly Ile Ser Ala Xaa Ala Val Leu
65 70

<210> 75

<211> 133

<212> PRT

<213> Homo sapiens

<400> 75

Ala Asn Val Gln Gly Pro Gly Leu Thr Asp Trp Leu Phe Pro Arg Arg
 20 25 30

Cys Pro Lys Ile Arg Glu Glu Cys Glu Phe Gln Glu Arg Asp Val Cys
35 40 45

Thr Lys Asp Arg Gln Cys Gln Asp Asn Lys Lys Cys Cys Val Phe Ser
50 55 60

Cys Gly Lys Lys Cys Leu Asp Leu Lys Gln Asp Val Cys Glu Met Pro
65 70 75 80

Lys Glu Thr Gly Pro Cys Leu Ala Tyr Phe Leu His Trp Trp Tyr Asp
85 90 95

Lys Lys Asp Asn Thr Cys Ser Met Phe Val Tyr Gly Gly Cys Gln Gly
100 105 110

Asn Asn Asn Asn Phe Gln Ser Lys Ala Asn Cys Leu Asn Thr Cys Lys
115 120 125

Asn Lys Arg Phe Pro
130

<210> 76

<211> 298

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 76

Met Ala Arg Arg Ser Arg His Arg Leu Leu Leu Leu Leu Arg Tyr
1 5 10 15

Leu Val Val Ala Leu Gly Tyr His Lys Ala Tyr Gly Phe Ser Ala Pro
20 25 30

Lys Asp Gln Gln Val Val Thr Ala Val Xaa Tyr Gln Glu Ala Ile Leu
35 40 45

Ala Cys Lys Thr Pro Lys Lys Thr Val Xaa Ser Arg Leu Glu Trp Lys
50 55 60

Lys Leu Gly Arg Ser Val Ser Phe Val Tyr Tyr Gln Gln Thr Leu Gln
65 70 75 80

Gly Asp Phe Lys Asn Arg Ala Glu Met Ile Asp Phe Asn Ile Arg Ile
85 90 95

Lys Asn Val Thr Arg Ser Asp Ala Gly Lys Tyr Arg Cys Glu Val Ser

100	105	110
Ala Pro Ser Glu Gln Gly Gln Asn Leu Glu Glu Asp Thr Val Thr Leu 115 120 125		
Glu Val Leu Val Ala Pro Ala Val Pro Ser Cys Glu Val Pro Ser Ser 130 135 140		
Ala Leu Ser Gly Thr Val Val Glu Leu Arg Cys Gln Asp Lys Glu Gly 145 150 155 160		
Asn Pro Ala Pro Glu Tyr Thr Trp Phe Lys Asp Gly Ile Arg Leu Leu 165 170 175		
Glu Asn Pro Arg Leu Gly Ser Gln Ser Thr Asn Ser Ser Tyr Thr Met 180 185 190		
Asn Thr Lys Thr Gly Thr Leu Gln Phe Asn Thr Val Ser Lys Leu Asp 195 200 205		
Thr Gly Glu Tyr Ser Cys Glu Ala Arg Asn Ser Val Gly Tyr Arg Arg 210 215 220		
Cys Pro Gly Lys Arg Met Gln Val Asp Asp Leu Asn Ile Ser Gly Ile 225 230 235 240		
Ile Ala Ala Val Val Val Val Ala Leu Val Ile Ser Val Cys Gly Leu 245 250 255		
Gly Val Cys Tyr Ala Gln Arg Lys Gly Tyr Phe Ser Lys Glu Thr Ser 260 265 270		
Phe Gln Lys Ser Asn Ser Ser Ser Lys Ala Thr Thr Met Ser Glu Asn 275 280 285		
Asp Phe Lys His Thr Lys Ser Phe Ile Ile 290 295		

<210> 77

<211> 856

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (190)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (233)

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

Lys Asp Ile Asn Gln Leu Gln Lys Ala Asn Val Arg Leu Tyr His Val

245										250					255				
Tyr	Glu	Lys	Gly	Lys	Asp	Leu	Val	Val	Leu	Glu	Leu	Ala	Thr	Pro	Pro				
			260					265					270						
Leu	Thr	Gln	Asp	Leu	Leu	Gln	Glu	Glu	Asp	Phe	Tyr	Ile	Leu	Asp	Gln				
		275					280					285							
Gly	Gly	Phe	Lys	Ile	Tyr	Val	Trp	Gln	Gly	Arg	Met	Ser	Ser	Leu	Gln				
	290					295					300								
Glu	Arg	Lys	Ala	Ala	Phe	Ser	Arg	Ala	Val	Gly	Phe	Ile	Gln	Ala	Lys				
305					310					315					320				
Gly	Tyr	Pro	Thr	Tyr	Thr	Asn	Val	Glu	Val	Val	Asn	Asp	Gly	Ala	Glu				
				325					330					335					
Ser	Ala	Ala	Phe	Lys	Gln	Leu	Phe	Arg	Thr	Trp	Ser	Glu	Lys	Arg	Arg				
			340					345					350						
Arg	Asn	Gln	Lys	Leu	Gly	Gly	Arg	Asp	Lys	Ser	Ile	His	Val	Lys	Leu				
		355					360					365							
Asp	Val	Gly	Lys	Leu	His	Thr	Gln	Pro	Lys	Leu	Ala	Ala	Gln	Leu	Arg				
	370					375					380								
Met	Val	Asp	Asp	Gly	Ser	Gly	Lys	Val	Glu	Val	Trp	Cys	Ile	Gln	Asp				
385					390					395					400				
Leu	His	Arg	Gln	Pro	Val	Asp	Pro	Lys	Arg	His	Gly	Gln	Leu	Cys	Ala				
				405				410						415					
Gly	Asn	Cys	Tyr	Leu	Val	Leu	Tyr	Thr	Tyr	Gln	Arg	Leu	Gly	Arg	Val				
			420					425					430						
Gln	Tyr	Ile	Leu	Tyr	Leu	Trp	Gln	Gly	His	Gln	Ala	Thr	Ala	Asp	Glu				
		435					440					445							
Ile	Glu	Ala	Leu	Asn	Ser	Asn	Ala	Glu	Glu	Leu	Asp	Val	Met	Tyr	Gly				
	450					455					460								
Gly	Val	Leu	Val	Gln	Glu	His	Val	Thr	Met	Gly	Ser	Glu	Pro	Pro	His				
465					470					475					480				
Phe	Leu	Ala	Ile	Phe	Gln	Gly	Gln	Leu	Val	Ile	Phe	Gln	Glu	Arg	Ala				
				485					490					495					
Gly	His	His	Gly	Lys	Gly	Gln	Ser	Ala	Ser	Thr	Thr	Arg	Leu	Phe	Gln				
			500					505					510						
Val	Gln	Gly	Thr	Asp	Ser	His	Asn	Thr	Arg	Thr	Met	Glu	Val	Pro	Ala				
		515					520					525							
Arg	Ala	Ser	Ser	Leu	Asn	Ser	Ser	Asp	Ile	Phe	Leu	Leu	Val	Thr	Ala				
	530					535					540								
Ser	Val	Cys	Tyr	Leu	Trp	Phe	Gly	Lys	Gly	Cys	Asn	Gly	Asp	Gln	Arg				
545					550					555					560				

[illegible]

<210> 78
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 78
 Met Pro Cys Val Phe Cys Tyr Leu Leu Leu Leu Val Gln Phe Thr Tyr
 1 5 10 15
 Thr Phe Thr Leu Ser Asn Pro Asn Ser Ser Ser Arg Pro Asp Ser Asp
 20 25 30
 Phe Asn Phe Leu Lys Ala Ile
 35

<210> 79
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 79
 Met Ala Leu Ser Val Leu Val Leu Leu Leu Leu Ala Val Leu Tyr Glu
 1 5 10 15
 Gly Ile Lys Val Gly Lys Ala Ser Cys Ser Thr Arg Tyr Trp
 20 25 30

<210> 80
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 80
 Met Pro Ala Leu Val Leu Leu Pro Arg Val Leu Pro Pro Gly Gln Gly
 1 5 10 15
 Glu Val Gln Arg Val Arg Cys Pro Tyr Val Gly Asn Ser Ser Gly Arg
 20 25 30
 Lys Ile Trp Phe Gly Phe Ile Leu Arg Ala Ile Lys His
 35 40 45

<210> 81
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 81
 Met Glu Ala Lys Phe Gly Leu Leu Cys Phe Leu Val Ser Thr Pro Trp
 1 5 10 15
 Ala Glu Leu Leu Ser Leu Leu Leu His Leu Thr Gln Val Pro Phe Pro
 20 25 30

Gly Ser Gln Gly Pro Gly Phe
35

<210> 82
<211> 36
<212> PRT
<213> Homo sapiens

<400> 82
Met Leu Ser Phe Lys Leu Leu Leu Leu Ala Val Ala Leu Gly Phe Phe
1 5 10 15
Glu Gly Asp Ala Lys Phe Gly Glu Arg Asn Glu Gly Ser Gly Gln Gly
20 25 30

Gly Glu Gly Ala
35

<210> 83
<211> 293
<212> PRT
<213> Homo sapiens

<400> 83
Leu Ala Pro Leu Ile Ala Leu Val Tyr Ser Val Pro Arg Leu Ser Arg
1 5 10 15
Trp Leu Ala Gln Pro Tyr Tyr Leu Leu Ser Ala Leu Leu Ser Ala Ala
20 25 30
Phe Leu Leu Val Arg Lys Leu Pro Pro Leu Cys His Gly Leu Pro Thr
35 40 45
Gln Arg Glu Asp Gly Asn Pro Cys Asp Phe Asp Trp Arg Glu Val Glu
50 55 60
Ile Leu Met Phe Leu Ser Ala Ile Val Met Met Lys Asn Arg Arg Ser
65 70 75 80
Ile Thr Val Glu Gln His Ile Gly Asn Ile Phe Met Phe Ser Lys Val
85 90 95
Ala Asn Thr Ile Leu Phe Phe Arg Leu Asp Ile Arg Met Gly Leu Leu
100 105 110
Tyr Ile Thr Leu Cys Ile Val Phe Leu Met Thr Cys Lys Pro Pro Leu
115 120 125
Tyr Met Gly Pro Glu Tyr Ile Lys Tyr Phe Asn Asp Lys Thr Ile Asp
130 135 140
Glu Glu Leu Glu Arg Asp Lys Arg Val Thr Trp Ile Val Glu Phe Phe
145 150 155 160
Ala Asn Trp Ser Asn Asp Cys Gln Ser Phe Ala Pro Ile Tyr Ala Asp
165 170 175

Phe Leu Pro Gly Gly Val Arg Pro Ala Pro Asp Arg Ala Pro Gly
130 135 140

<210> 85
 <211> 121
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (89)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 85
 Met Arg Ile Met Leu Leu Phe Thr Ala Ile Leu Ala Phe Ser Leu Ala
 1 5 10 15
 Gln Ser Phe Gly Ala Val Cys Lys Glu Pro Gln Glu Glu Val Val Pro
 20 25 30
 Gly Gly Gly Arg Ser Lys Arg Asp Pro Asp Leu Tyr Gln Leu Leu Gln
 35 40 45
 Arg Leu Phe Lys Ser His Ser Ser Leu Glu Gly Leu Leu Lys Ala Leu
 50 55 60
 Ser Gln Xaa Ser Thr Asp Pro Lys Glu Ser Thr Ser Pro Glu Lys Arg
 65 70 75 80
 Asp Met His Asp Phe Phe Val Gly Xaa Met Gly Lys Arg Ser Val Gln
 85 90 95
 Pro Asp Ser Pro Thr Asp Val Asn Gln Glu Asn Val Pro Ser Phe Gly
 100 105 110
 Ile Leu Lys Tyr Pro Pro Arg Ala Glu
 115 120

<210> 86
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 86
 Met Val Leu Leu Met Val Trp Val Val Met Ala Val Val Val Glu Ala
 1 5 10 15
 Val Glu Val Thr Met Gly Lys Ala Ala
 20 25

<210> 87
 <211> 4

<212> PRT
 <213> Homo sapiens

<400> 87
 Ser Leu His Ala
 1

<210> 88
 <211> 235
 <212> PRT
 <213> Homo sapiens

<400> 88
 Met Pro Trp Val Leu Leu Leu Leu Thr Leu Leu Thr His Ser Ala Val
 1 5 10 15
 Ser Val Val Gln Ala Gly Leu Thr Gln Pro Pro Ser Val Ser Lys Asp
 20 25 30
 Leu Arg Gln Thr Ala Thr Leu Thr Cys Thr Gly Asn Asn Asn Asn Val
 35 40 45
 Gly Asp Gln Gly Ala Ala Trp Leu Gln Gln His Gln Gly His Pro Pro
 50 55 60
 Lys Leu Leu Ser Tyr Arg Asn Asn Asn Arg Pro Ser Gly Ile Ser Glu
 65 70 75 80
 Arg Leu Ser Ala Ser Arg Ser Gly Ala Thr Ser Ser Leu Thr Ile Thr
 85 90 95
 Gly Leu Gln Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Tyr Asp
 100 105 110
 Ser Ser Leu Ala Val Trp Met Phe Gly Gly Gly Thr Lys Leu Thr Val
 115 120 125
 Leu Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser
 130 135 140
 Ser Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser
 145 150 155 160
 Asp Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser
 165 170 175
 Pro Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn
 180 185 190
 Asn Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp
 195 200 205
 Lys Ser His Lys Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr
 210 215 220
 Val Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
 225 230 235

<210> 89
 <211> 87
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 89
 Met Ser Leu Asn Val Leu Leu Ala Leu Phe Xaa Leu Leu Leu Ala Lys
 1 5 10 15
 Glu Ser Ser Cys Arg Ile Pro Ala Ala Arg Gly Asp Pro Leu Val Leu
 20 25 30
 Glu Arg Pro Pro Pro Arg Trp Glu Leu Gln Leu Leu Val Pro Phe Ser
 35 40 45
 Glu Gly Leu Ile Ser Ser Leu Ala Val Ile Met Gly His Ser Leu Phe
 50 55 60
 Pro Gly Val Glu Ile Gly Tyr Pro Ala His Lys Phe His Asn Asn Asn
 65 70 75 80
 Thr Ser Arg Lys His Xaa Val
 85

<210> 90
 <211> 106
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (22)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 90
 Met Ala Leu His Gly Phe His Phe Asp Leu Phe His Phe His Leu Leu
 1 5 10 15
 Leu Phe Gln Leu Leu Xaa Leu Thr Pro Gln Cys Ser Leu Leu Gln Pro
 20 25 30
 Ala Leu Phe Leu Arg Ile Phe Leu Ile His Asp Ser Leu Leu Leu Cys
 35 40 45
 Ser Phe Phe Leu Leu Pro Pro Arg Leu Cys Cys Phe Leu Ser Leu His

50 55 60

Met Cys Gln Phe Gln Glu Val Leu Phe Tyr Ser Gly Thr Val Leu Ile
65 70 75 80

Cys Phe Leu Phe Ala Phe Ser Val Glu Ser Glu Leu Phe Gly Phe Ile
 85 90 95

Asn Arg Ile Asn His His Val His Gln Gly
 100 105

<210> 91
<211> 59
<212> PRT
<213> Homo sapiens

<400> 91

Met Tyr Ala Lys Cys Gln Lys Lys Leu Ala Pro Ala Trp Leu Ile Phe
1 5 10 15

Phe Ile Gly Gly Met Thr Arg Lys Ile Ile Leu Ala Pro Cys Leu Ser
 20 25 30

Met Val Ala Ala Arg Gly Asn Asn Asn Asn Phe Gln Ser Lys Ala Asn
 35 40 45

Cys Leu Asn Thr Cys Lys Asn Lys Arg Phe Pro
 50 55

<210> 92
<211> 32
<212> PRT
<213> Homo sapiens

<400> 92

Met Glu Val Pro Ala Arg Ala Ser Ser Leu Asn Ser Ser Asp Ile Phe
1 5 10 15

Leu Leu Val Thr Ala Ser Val Cys Tyr Leu Trp Phe Gly Lys Gly Leu
 20 25 30

<210> 93
<211> 178
<212> PRT
<213> Homo sapiens

<400> 93

Phe Ser Val Thr Asn Asn Thr Glu Cys Gly Lys Leu Leu Glu Glu Ile
1 5 10 15

Lys Cys Ala Leu Cys Ser Pro His Ser Gln Ser Leu Phe His Ser Pro
 20 25 30

Glu Arg Asp Lys Arg Val Thr Trp Ile Val Glu Phe Phe Ala Asn Trp
100 105 110

Pro Gly Met Leu Met Gln Pro Trp Ser Met Cys Arg Ile Leu Arg Thr
115 120 125

Leu Leu Arg Ser Arg Val Leu Tyr Pro Asp Gly Gln Xaa Ser Asp Asp
130 135 140

Ser Pro Gln Ala Cys Arg Leu Pro Glu Ser Trp Pro Arg Ala Ala Pro
145 150 155 160

Ala His His Ser Gly Leu Ser Leu Pro His Arg Leu Asp Arg Gly Met
165 170 175

Pro Gly Gly Ser Glu Ala Ala Ala Gly Leu Gln Leu Gln Cys Ser His
180 185 190

Ser Lys Met Pro
195

<210> 96

<211> 255

<212> PRT

<213> Homo sapiens

<400> 96

Ile His Leu Ala Leu Val Glu Leu Leu Lys Asn Leu Thr Lys Tyr Pro
1 5 10 15

Thr Asp Arg Asp Ser Ile Trp Lys Cys Leu Lys Phe Leu Gly Ser Arg
20 25 30

His Pro Thr Leu Val Leu Pro Leu Val Pro Glu Leu Leu Ser Thr His
35 40 45

Pro Phe Phe Asp Thr Ala Glu Pro Asp Met Asp Asp Pro Ala Tyr Ile
50 55 60

Ala Val Leu Val Leu Ile Phe Asn Ala Ala Lys Thr Cys Pro Thr Met
65 70 75 80

Pro Ala Leu Phe Ser Asp His Thr Phe Arg His Tyr Ala Tyr Leu Arg
85 90 95

Asp Ser Leu Ser His Leu Val Pro Ala Leu Arg Leu Pro Gly Arg Lys
100 105 110

Leu Val Ser Ser Ala Val Ser Pro Ser Ile Ile Pro Gln Glu Asp Pro
115 120 125

Ser Gln Gln Phe Leu Gln Gln Ser Leu Glu Arg Val Tyr Ser Leu Gln
130 135 140

His Leu Asp Pro Gln Gly Ala Gln Glu Leu Leu Glu Phe Thr Ile Arg
145 150 155 160

Asp Leu Gln Arg Leu Gly Glu Leu Gln Ser Glu Leu Ala Gly Val Ala
165 170 175

Asp Phe Ser Ala Thr Tyr Leu Arg Cys Gln Leu Leu Leu Ile Lys Ala
180 185 190

Leu Gln Glu Lys Leu Trp Asn Val Ala Ala Pro Leu Tyr Leu Lys Gln
 195 200 205

Ser Asp Leu Ala Ser Ala Ala Ala Lys Gln Ile Met Glu Glu Thr Tyr
 210 215 220

Lys Met Glu Phe Met Tyr Ser Gly Val Glu Asn Lys Gln Val Val Ile
 225 230 235 240

Ile His His Met Arg Leu Gln Ala Lys Ala Leu Gln Leu Ile Val
 245 250 255

<210> 97
 <211> 137
 <212> PRT
 <213> Homo sapiens

<400> 97
 Arg Phe Tyr Ser Asn Ser Cys Cys Leu Cys Cys His Val Arg Thr Gly
 1 5 10 15

Thr Ile Leu Leu Gly Val Trp Tyr Leu Ile Ile Asn Ala Val Val Leu
 20 25 30

Leu Ile Leu Leu Ser Ala Leu Ala Asp Pro Asp Gln Tyr Asn Phe Ser
 35 40 45

Ser Ser Glu Leu Gly Gly Asp Phe Glu Phe Met Asp Asp Ala Asn Met
 50 55 60

Cys Ile Ala Ile Ala Ile Ser Leu Leu Met Ile Leu Ile Cys Ala Met
 65 70 75 80

Ala Thr Tyr Gly Ala Tyr Lys Gln Arg Ala Ala Gly Ile Ile Pro Phe
 85 90 95

Phe Cys Tyr Gln Ile Phe Asp Phe Ala Leu Asn Met Leu Val Ala Ile
 100 105 110

Thr Val Leu Ile Tyr Pro Asn Ser Ile Gln Glu Tyr Ile Arg Gln Leu
 115 120 125

Pro Pro Asn Phe Pro Tyr Arg Asp Asp
 130 135

<210> 98
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 98
 Phe Pro Thr Glu Met Met Ser Cys Ala Val Asn Pro Thr Cys Leu Val
 1 5 10 15

Leu Ile Ile Leu Leu Phe Ile Ser Ile Ile Leu Thr Phe Lys Gly Tyr
 20 25 30

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<210> 99
<211> 97
<212> PRT
<213> Homo sapiens
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<210> 100
<211> 240
<212> PRT
<213> Homo sapiens
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<400> 100
Pro  Asp  Ser  Ala  Ala  Ser  Leu  Ser  Thr  Cys  Ala  Gly  Leu  Arg  Gly  Phe
  1          5          10          15

Phe  Gln  Val  Gly  Ser  Asp  Leu  His  Leu  Ile  Glu  Pro  Leu  Asp  Glu  Gly
          20          25          30

Gly  Glu  Gly  Gly  Arg  His  Ala  Val  Tyr  Gln  Ala  Glu  His  Leu  Leu  Gln
          35          40          45

Thr  Ala  Gly  Thr  Cys  Gly  Val  Ser  Asp  Asp  Ser  Leu  Gly  Ser  Leu  Leu

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50	55	60
Gly Pro Arg Thr Ala Ala Val Phe Arg Pro Arg Pro Gly Asp Ser Leu		
65	70	75 80
Pro Ser Arg Glu Thr Arg Tyr Val Glu Leu Tyr Val Val Val Asp Asn		
	85	90 95
Ala Glu Phe Gln Met Leu Gly Ser Glu Ala Ala Val Arg His Arg Val		
	100	105 110
Leu Glu Val Val Asn His Val Asp Lys Leu Tyr Gln Lys Leu Asn Phe		
	115	120 125
Arg Val Val Leu Val Gly Leu Glu Ile Trp Asn Ser Gln Asp Arg Phe		
	130	135 140
His Val Ser Pro Asp Pro Ser Val Thr Leu Glu Asn Leu Leu Thr Trp		
	145	150 155 160
Gln Ala Arg Gln Arg Thr Arg Arg His Leu His Asp Asn Val Gln Leu		
	165	170 175
Ile Thr Gly Val Asp Phe Thr Gly Thr Thr Val Gly Phe Ala Arg Val		
	180	185 190
Ser Ala Met Cys Ser His Ser Ser Gly Ala Val Asn Gln Asp His Ser		
	195	200 205
Lys Asn Pro Val Gly Val Ala Cys Thr Met Ala His Glu Met Gly His		
	210	215 220
Asn Leu Gly Met Asp His Asp Glu Asn Val Gln Gly Cys Arg Cys Gln		
	225	230 235 240

<210> 101
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 101
 Phe Glu Ala Gly Arg Cys Ile Met Ala Arg Pro Ala Leu Ala Pro Ser
 1 5 10 15
 Phe Pro Arg Met Phe Ser Asp Cys Ser Gln Ala Tyr Leu Glu Ser Phe
 20 25 30
 Leu Glu Arg Pro Gln Ser Val Cys Leu Ala Asn Ala Pro Asp Leu Ser
 35 40 45
 His Leu Val Gly Gly Pro Val Cys Gly Asn Leu Phe Val Glu Arg Gly
 50 55 60
 Glu Gln Cys Asp Cys Gly Pro Pro Glu Asp Cys Arg Asn Arg Cys Cys

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<210> 102
<211> 471
<212> PRT
<213> Homo sapiens
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<400> 102																
Gly	Ser	Gln	Glu	Glu	Arg	Phe	Ala	Pro	Gly	Trp	Asn	Arg	Asp	Tyr	Pro	
1				5					10					15		
Pro	Pro	Pro	Leu	Lys	Ser	His	Ala	Gln	Glu	Arg	His	Ser	Gly	Asn	Phe	
			20					25					30			
Pro	Gly	Arg	Asp	Ser	Leu	Pro	Phe	Asp	Phe	Gln	Gly	His	Ser	Gly	Pro	
		35					40					45				
Pro	Phe	Ala	Asn	Val	Glu	Glu	His	Ser	Phe	Ser	Tyr	Gly	Ala	Arg	Asp	
	50					55					60					
Gly	Pro	His	Gly	Asp	Tyr	Arg	Gly	Gly	Glu	Gly	Pro	Gly	His	Asp	Phe	
65					70					75					80	
Arg	Gly	Gly	Asp	Phe	Ser	Ser	Ser	Asp	Phe	Gln	Ser	Arg	Asp	Ser	Ser	
				85					90					95		
Gln	Leu	Asp	Phe	Arg	Gly	Arg	Asp	Ile	His	Ser	Gly	Asp	Phe	Arg	Asp	
			100					105					110			
Arg	Glu	Gly	Pro	Pro	Met	Asp	Tyr	Arg	Gly	Gly	Asp	Gly	Thr	Ser	Met	
		115					120					125				
Asp	Tyr	Arg	Gly	Arg	Glu	Ala	Pro	His	Met	Asn	Tyr	Arg	Asp	Arg	Asp	
	130					135					140					
Ala	His	Ala	Val	Asp	Phe	Arg	Gly	Arg	Asp	Ala	Pro	Pro	Ser	Asp	Phe	
145					150					155					160	
Arg	Gly	Arg	Gly	Thr	Tyr	Asp	Leu	Asp	Phe	Arg	Gly	Arg	Asp	Gly	Ser	
				165					170					175		
His	Ala	Asp	Phe	Arg	Gly	Arg	Asp	Leu	Ser	Asp	Leu	Asp	Phe	Arg	Ala	
			180					185					190			
Arg	Glu	Gln	Ser	Arg	Ser	Asp	Phe	Arg	Asn	Arg	Asp	Val	Ser	Asp	Leu	
		195					200					205				
Asp	Phe	Arg	Asp	Lys	Asp	Gly	Thr	Gln	Val	Asp	Phe	Arg	Gly	Arg	Gly	

210	215	220
Ser Gly Thr Thr Asp Leu Asp Phe Arg Asp Arg Asp Thr Pro His Ser		
225	230	235 240
Asp Phe Arg Gly Arg His Arg Ser Arg Thr Asp Gln Asp Phe Arg Gly		
	245	250 255
Arg Glu Met Gly Ser Cys Met Glu Phe Lys Asp Arg Glu Met Pro Pro		
	260	265 270
Val Asp Pro Asn Ile Leu Asp Tyr Ile Gln Pro Ser Thr Gln Asp Arg		
	275	280 285
Glu His Ser Gly Met Asn Val Asn Arg Arg Glu Glu Ser Thr His Asp		
	290	295 300
His Thr Ile Glu Arg Pro Ala Phe Gly Ile Gln Lys Gly Glu Phe Glu		
305	310	315 320
His Ser Glu Thr Arg Glu Gly Glu Thr Gln Gly Val Ala Phe Glu His		
	325	330 335
Glu Ser Pro Ala Asp Phe Gln Asn Ser Gln Ser Pro Val Gln Asp Gln		
	340	345 350
Asp Lys Ser Gln Leu Ser Gly Arg Glu Glu Gln Ser Ser Asp Ala Gly		
	355	360 365
Leu Phe Lys Glu Glu Gly Gly Leu Asp Phe Leu Gly Arg Gln Asp Thr		
	370	375 380
Asp Tyr Arg Ser Met Glu Tyr Arg Asp Val Asp His Arg Leu Pro Gly		
385	390	395 400
Ser Gln Met Phe Gly Tyr Gly Gln Ser Lys Ser Phe Pro Glu Gly Lys		
	405	410 415
Thr Ala Arg Asp Ala Gln Arg Asp Leu Gln Asp Gln Asp Tyr Arg Thr		
	420	425 430
Gly Pro Ser Glu Glu Lys Pro Ser Arg Leu Ile Arg Leu Ser Gly Val		
	435	440 445
Pro Glu Asp Ala Thr Lys Glu Glu Ile Leu Asn Ala Phe Arg Thr Pro		
	450	455 460
Asp Gly Met Pro Val Lys Asn		
465	470	

<210> 103

<211> 125

<212> PRT

<213> Homo sapiens

<400> 103

Gly Leu Gln Asp Ser Ala Arg Gly Gly Ser Gln Glu Glu Arg Phe Ala

1	5	10	15
Pro Gly Trp Asn Arg Asp Tyr Pro Pro Pro Pro Leu Lys Ser His Ala	20	25	30
Gln Glu Arg His Ser Gly Asn Phe Pro Gly Arg Asp Ser Leu Pro Phe	35	40	45
Asp Phe Gln Gly His Ser Gly Pro Pro Phe Ala Asn Val Glu Glu His	50	55	60
Ser Phe Ser Tyr Gly Ala Arg Asp Gly Pro His Gly Asp Tyr Arg Gly	65	70	75
Gly Glu Gly Pro Gly His Asp Phe Arg Gly Gly Asp Phe Ser Ser Ser	85	90	95
Asp Phe Gln Ser Arg Asp Ser Ser Gln Leu Asp Phe Arg Gly Arg Asp	100	105	110
Ile His Ser Gly Asp Phe Arg Asp Arg Glu Gly Pro Pro	115	120	125

<210> 104
 <211> 330
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (147)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (181)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (190)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (260)
 <223> Xaa equals any of the naturally occurring L-amino acids

Met Leu Pro Asp Trp Lys Xaa Ser Leu Ile Leu Met Ala Tyr Ile Ile	1	5	10	15
---	---	---	----	----

Ile	Phe	Leu	Thr	Gly	Leu	Pro	Ala	Asn	Leu	Leu	Ala	Leu	Arg	Ala	Phe	
			20					25					30			
Val	Gly	Arg	Ile	Arg	Gln	Pro	Gln	Pro	Ala	Pro	Val	His	Ile	Leu	Leu	
			35					40					45			
Leu	Ser	Leu	Thr	Leu	Ala	Asp	Leu	Leu	Leu	Leu	Leu	Leu	Leu	Pro	Phe	
			50					55					60			
Lys	Ile	Ile	Glu	Ala	Ala	Ser	Asn	Phe	Arg	Trp	Tyr	Leu	Pro	Lys	Val	
			65					70					75		80	
Val	Cys	Ala	Leu	Thr	Ser	Phe	Gly	Phe	Tyr	Ser	Ser	Ile	Tyr	Cys	Ser	
			85					90					95			
Thr	Trp	Leu	Leu	Ala	Gly	Ile	Ser	Ile	Glu	Arg	Tyr	Leu	Gly	Val	Ala	
			100					105					110			
Phe	Pro	Val	Gln	Tyr	Lys	Leu	Ser	Arg	Arg	Pro	Leu	Tyr	Gly	Val	Ile	
			115					120					125			
Ala	Ala	Leu	Val	Ala	Trp	Val	Met	Ser	Phe	Gly	His	Cys	Thr	Ile	Val	
			130					135					140			
Ile	Ile	Xaa	Gln	Tyr	Leu	Asn	Thr	Thr	Glu	Gln	Val	Arg	Ser	Gly	Asn	
			145					150					155		160	
Glu	Ile	Thr	Cys	Tyr	Glu	Asn	Phe	Thr	Asp	Asn	Gln	Leu	Asp	Val	Val	
			165					170					175			
Leu	Pro	Val	Arg	Xaa	Glu	Leu	Cys	Leu	Val	Leu	Phe	Phe	Xaa	Pro	Met	
			180					185					190			
Ala	Val	Thr	Ile	Phe	Cys	Tyr	Trp	Arg	Phe	Val	Trp	Ile	Met	Leu	Ser	
			195					200					205			
Gln	Pro	Leu	Val	Gly	Ala	Gln	Arg	Arg	Arg	Arg	Ala	Val	Gly	Leu	Ala	
			210					215					220			
Val	Val	Thr	Leu	Leu	Asn	Phe	Leu	Val	Cys	Phe	Gly	Pro	Tyr	Asn	Val	
			225					230					235		240	
Ser	His	Leu	Val	Gly	Tyr	His	Gln	Arg	Lys	Ser	Pro	Trp	Trp	Arg	Ser	
			245					250					255			
Ile	Ala	Val	Xaa	Phe	Ser	Ser	Leu	Asn	Ala	Ser	Leu	Asp	Pro	Leu	Leu	
			260					265					270			
Phe	Tyr	Phe	Ser	Ser	Ser	Val	Val	Arg	Arg	Ala	Phe	Gly	Arg	Gly	Leu	
			275					280					285			
Gln	Val	Leu	Arg	Asn	Gln	Gly	Ser	Ser	Leu	Leu	Gly	Arg	Arg	Gly	Lys	
			290					295					300			
Asp	Thr	Ala	Glu	Gly	Thr	Asn	Glu	Asp	Arg	Gly	Val	Gly	Gln	Gly	Glu	
			305					310					315		320	
Gly	Met	Pro	Ser	Ser	Asp	Phe	Thr	Thr	Glu							

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<210> 105
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 105
 Cys Ser Thr Trp Leu Leu Ala Gly Ile Ser Ile Glu Arg Tyr Leu Gly
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Val

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 Cys Thr Ile Val Ile Ile Xaa Gln Tyr Leu Asn Thr Thr Glu Gln Val
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Arg Ser Gly Asn Glu Ile Thr Cys Tyr Glu Asn Phe Thr Asp Asn Gln
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Leu Asp Val Val Leu Pro Val Arg Xaa Glu Leu Cys Leu Val Leu Phe
 35 40 45

Phe Xaa Pro Met Ala Val Thr Ile Phe Cys Tyr Trp Arg Phe Val Trp
 50 55 60

Ile Met Leu Ser Gln Pro Leu Val Gly Ala Gln Arg Arg Arg Ala
 65 70 75 80

Val Gly Leu Ala Val Val Thr Leu Leu Asn Phe Leu Val Cys
 85 90

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Gly	Leu	Pro	Ala	Ala	Arg	Val	Arg	Trp	Glu	Ser	Ser	Phe	Ser	Arg	Thr
1				5					10					15	

Val	Val	Ala	Pro	Ser	Ala	Val	Ala	Xaa	Lys	Arg	Pro	Pro	Glu	Pro	Thr
			20					25					30		

Thr	Pro	Trp	Gln	Glu	Asp	Pro	Glu	Pro	Glu	Asp	Glu	Asn	Leu	Tyr	Glu
		35					40					45			

Lys	Asn	Pro	Asp	Ser	His	Gly	Tyr	Asp	Lys	Asp	Pro	Val	Leu	Asp	Val
	50					55					60				

Trp	Asn	Met	Arg	Leu	Val	Phe	Phe	Phe	Gly	Val	Ser	Ile	Ile	Leu	Val
65					70					75					80

Leu	Gly	Ser	Thr	Phe	Val	Ala	Tyr	Leu	Pro	Asp	Tyr	Arg	Cys	Thr	Gly
				85					90					95	

Cys	Pro	Arg	Ala	Trp	Asp	Gly	Met	Lys	Glu	Trp	Ser	Arg	Arg	Glu	Ala
			100					105					110		

Glu	Arg	Leu	Val	Lys	Tyr	Arg	Glu	Ala	Asn	Gly	Leu	Pro	Ile	Met	Glu
		115					120					125			

Ser	Asn	Cys	Phe	Asp	Pro	Ser	Lys	Ile	Gln	Leu	Pro	Glu	Asp	Glu	
	130						135				140				

<210> 108

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<212> PRT

<213> Homo sapiens

<400> 108

Pro	Glu	Lys	Arg	Asp	Met	His	Asp	Phe	Phe	Val	Gly	Leu	Met	Gly	Lys
1					5					10				15	

Arg	Ser	Val	Gln	Pro	Asp	Ser	Pro	Thr	Asp	Val	Asn	Gln	Glu	Asn	Val
			20					25					30		

Pro	Ser	Phe	Gly												
			35												

<210> 109

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<212> PRT

<213> Homo sapiens

<400> 109

Lys	Arg	Asp	Met	His	Asp	Phe	Phe	Val	Gly	Leu	Met	Gly	Lys	Arg
1				5					10					15

<210> 110

<211> 10

<212> PRT

<213> Homo sapiens

<400> 110

Asp	Met	His	Asp	Phe	Phe	Val	Gly	Leu	Met
1				5					10

<210> 111

<211> 16

<212> PRT

<213> Homo sapiens

<400> 111

Glu	Trp	Glu	Ala	Thr	Glu	Glu	Met	Glu	Trp	Ile	Ile	Arg	Glu	Ala	Met
1				5					10					15	

<210> 112

<211> 35

<212> PRT

<213> Homo sapiens

<400> 112

Trp	Glu	Trp	Gly	Thr	Ile	Thr	Val	Glu	Asp	Met	Val	Leu	Leu	Met	Val
1				5					10					15	

Trp	Val	Val	Met	Ala	Val	Val	Val	Glu	Ala	Val	Glu	Val	Thr	Met	Gly
			20						25					30	

Lys	Ala	Ala
		35

<210> 113

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<212> PRT

<213> Homo sapiens

<400> 113

Gly	Met	Gly	Gly	Tyr	Gly	Arg	Asp	Gly	Met	Asp	Asn	Gln	Gly	Gly	Tyr
1				5					10					15	

Gly Ser

<210> 114

<211> 43
 <212> PRT
 <213> Homo sapiens

<400> 114
 Gly Met Gly Asn Asn Tyr Ser Gly Gly Tyr Gly Thr Pro Asp Gly Leu
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 Gly Gly Tyr Gly Arg Gly Gly Gly Gly Ser Gly Gly Tyr Tyr Gly Gln
 20 25 30
 Gly Gly Met Ser Gly Gly Gly Trp Arg Gly Met
 35 40

<210> 115
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 115
 Gly Met Gly Asn Asn Tyr Ser Gly Gly Tyr Gly Thr Pro Asp Gly Leu
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 Gly Gly Tyr Gly Arg Gly Gly Gly Gly Ser Gly Gly Tyr Tyr Gly Gln
 20 25 30
 Gly Gly Met Ser Gly Gly Gly Trp Arg Gly Met
 35 40

<210> 116
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<400> 116
 Trp Asp Ser Thr Thr Ser Trp Thr Thr Ile Trp Leu Gln Gln Arg Gly
 1 5 10 15
 Asn Ser Ser Val Leu Ser Arg Val Gly Asn Arg Ala Asn Gly Ile Thr
 20 25 30
 Leu Thr Met Asp Tyr Gln Gly Arg Ser Thr Gly Glu Ala Phe Val Gln
 35 40 45
 Phe Ala Ser Lys Glu Ile Ala Glu Asn Ala Leu Gly Lys His Lys Glu
 50 55 60
 Arg Ile Gly His Arg Tyr Ile Glu Ile Phe Arg Ser Ser Arg Ser Glu
 65 70 75 80
 Ile Lys Gly Phe Tyr Asp Pro Pro Arg Arg Leu Leu Gly Gln Arg Pro
 85 90 95
 Gly Pro Tyr Asp Arg Pro Ile Gly Gly Arg Gly Gly Tyr Tyr Gly Ala
 100 105 110

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Gly Arg Gly Ser Met Tyr Asp Arg Met Arg Arg Gly Gly Asp Gly Tyr
 115 120 125

Asp Gly Gly Tyr Gly Gly Phe Asp Asp Tyr Gly Gly Tyr Asn Asn Tyr
 130 135 140

Gly Tyr Gly Asn Asp Gly Phe Asp Asp Arg Met Arg Asp Gly Arg Gly
 145 150 155 160

Met Gly Gly His Gly Tyr Gly Gly Ala Gly Asp Ala Ser Ser Gly Phe
 165 170 175

His Gly Gly His Phe Val His Met Arg Gly Leu Pro Phe Arg Ala Thr
 180 185 190

Glu Asn Asp Ile Ala Asn Phe Phe Ser Pro Leu Asn Pro Ile Arg Val
 195 200 205

His Ile Asp Ile Gly Ala Asp Gly Arg Ala Gln Glu Lys Gln Met
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<210> 117

<211> 26

<212> PRT

<213> Homo sapiens

<400> 117

Phe Thr His Ser Phe Ile Leu Glu His Ala Phe Ser Leu Leu Ile Thr
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Leu Pro Val Ser Ser Trp Ala Ala Asn Asn
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<210> 118

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Met	Met	Ile	Gln	Trp	Asn	Gly	Pro	Lys	Thr	Ser	Ile	Ser	Glu	Lys	Ala	
1				5					10					15		
Arg	Gly	Leu	Xaa	Leu	Thr	Tyr	Ser	Leu	Arg	Asp	Arg	Glu	Arg	Gly	Gly	
		20						25				30				
Gly	Arg	Ala	Gln	Ile	Gly	Val	Val	Asp	Asp	Glu	Ala	Lys	Ala	Pro	Asp	
		35					40					45				
Leu	Met	Gln	Ile	Met	Glu	Ala	Val	Leu	Gly	Arg	Arg	Val	Gly	Xaa	Leu	
	50					55				60						
Arg	Xaa	Ala	Thr	Pro	Ser	Lys	Asp	Ile	Asn	Gln	Leu	Gln	Lys	Ala	Asn	
	65				70					75					80	
Val	Arg	Leu	Tyr	His	Val	Tyr	Glu	Lys	Gly	Lys	Asp	Leu	Val	Val	Leu	
				85					90					95		
Glu	Leu	Ala	Thr	Pro	Pro	Leu	Thr	Gln	Asp	Leu	Leu	Gln	Glu	Glu	Asp	
			100					105					110			
Phe	Tyr	Ile	Leu	Asp	Gln	Gly	Gly	Phe	Lys	Ile	Tyr	Val	Trp	Gln	Gly	
	115					120						125				
Arg	Met	Ser	Ser	Leu	Gln	Glu	Arg	Lys	Ala	Ala	Phe	Ser	Arg	Ala	Val	
	130					135					140					
Gly	Phe	Ile	Gln	Ala	Lys	Gly	Tyr	Pro	Thr	Tyr	Thr	Asn	Val	Glu	Val	
	145				150					155					160	
Val	Asn	Asp	Gly	Ala	Glu	Ser	Ala	Ala	Phe	Lys	Gln	Leu	Phe	Arg	Thr	
			165						170					175		
Trp	Ser	Glu	Lys	Arg	Arg	Arg	Asn	Gln	Lys	Xaa	Gly	Gly	Arg	Asp	Lys	
		180						185					190			
Ser	Ile	His	Val	Lys	Leu	Asp	Val	Gly	Lys	Leu	His	Thr	Gln	Pro	Lys	
	195					200						205				
Leu	Ala	Ala	Gln	Leu	Arg	Met	Val	Asp	Asp	Gly	Ser	Gly	Lys	Val	Glu	
	210					215					220					
Val	Trp	Cys	Ile	Gln	Asp	Leu	His	Arg	Gln	Pro	Val	Asp	Pro	Lys	Arg	
	225				230					235					240	
His	Gly	Gln	Leu	Cys	Ala	Gly	Asn	Cys	Tyr	Leu	Val	Leu	Tyr	Thr	Tyr	
			245					250						255		
Gln	Arg	Leu	Gly	Arg	Val	Gln	Tyr	Ile	Leu	Tyr	Leu	Trp	Gln	Gly	His	
		260					265						270			
Gln	Ala	Thr	Ala	Asp	Glu	Ile	Glu	Ala	Leu	Asn	Ser	Asn	Ala	Glu	Glu	
		275					280					285				
Leu	Asp	Val	Met	Tyr	Gly	Gly	Val	Leu	Val	Gln	Glu	His	Val	Thr	Met	

290		295		300																
Gly	Ser	Glu	Pro	Pro	His	Phe	Leu	Ala	Ile	Phe	Gln	Gly	Gln	Leu	Val					
305					310					315					320					
Ile	Phe	Gln	Glu	Arg	Ala	Gly	His	His	Gly	Lys	Gly	Gln	Ser	Ala	Ser					
				325					330					335						
Thr	Thr	Arg	Leu	Phe	Gln	Val	Gln	Gly	Thr	Asp	Ser	His	Asn	Thr	Arg					
			340					345					350							
Thr	Met	Glu	Val	Pro	Ala	Arg	Ala	Ser	Ser	Leu	Asn	Ser	Ser	Asp	Ile					
		355					360					365								
Phe	Leu	Leu	Val	Thr	Ala	Ser	Val	Cys	Tyr	Leu	Trp	Phe	Gly	Lys	Gly					
370						375					380									

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